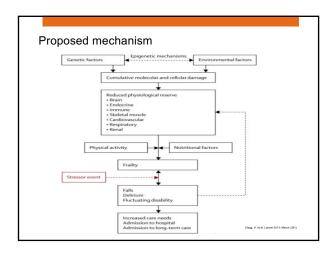
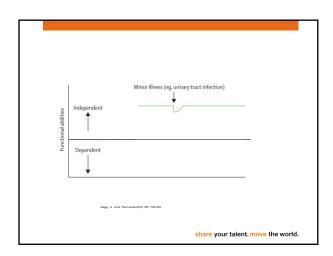
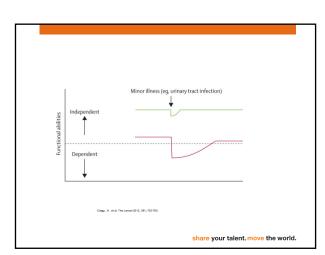


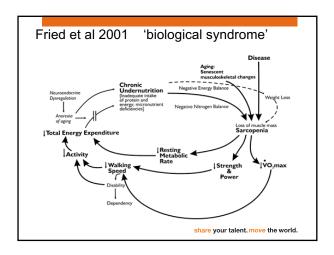
Frailty: Fried et al 2001

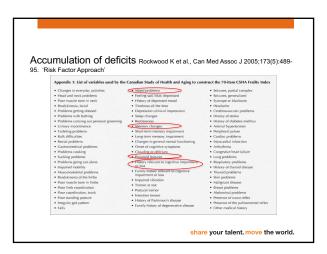
 frailty is a biologic syndrome of decreased reserve and resistance to stressors, resulting from cumulative declines across multiple physiologic systems, and causing vulnerability to adverse outcomes including falls, incident disability, hospitalization, and mortality.

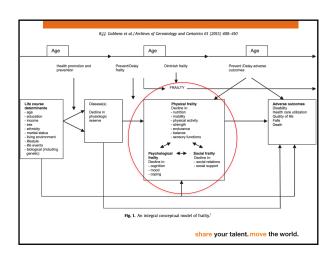


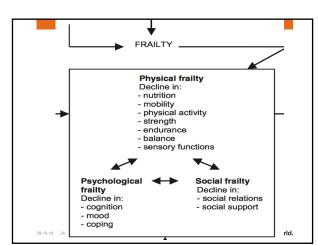


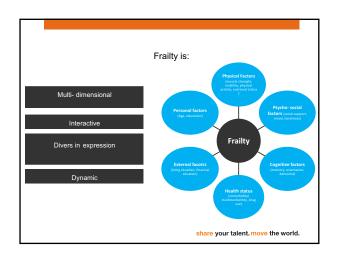










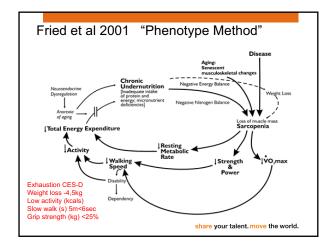


Outcome instruments to measure frailty

De Vries et al. Outcome instruments to measure frailty: a systematic review. 2011

- In total 20 frailty instruments retrieved
- Large differences in prevalence; 5%-55%
- Limited research on clinimetric proporties
- Mainly developed as prognostic instrument
- Roberta Vella Azzopardi et al. 2016 → Linking Frailty Instruments to the International Classification of Functioning, Disability, and Health: A Systematic Review
- 79 original or adapted instruments → Environmental and personal factors should be given more thought in future frailty assessments.

 ${\color{red}\textbf{share your talent.}}\, {\color{red}\textbf{move the world.}}$



Frailty Index (Rockwood et al) "Index method"

List of 40-50 items

Frailty Index =

Number of deficits in an individual
 Total number of deficits measured

· Example:

15 deficits 50 deficits listed/measured = 0.3

• >0.2 = Frail





Scoring frailty in people with dementia

The degree of frailty corresponds to the degree of dementia. Common symptoms in mild dementia include forgetting the details of a recent event, though still remembering the event itself repeating the same question/story and social withdrawal. In moderate dementia, recent memory is very impaired, even

They can do personal care with prompting.

In severe dementia, they cannot do personal care without help.

 I. Canadian Study on Health & Aging, Revised 2008.
 K. Rockwood et al. A global clinical measure of fitness and frailty in elderly people. CMAJ 2005;173:489-495.

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Groningen Frailty Indicator Steverink et al 2001

- 9 Physical components
- Question; Are you able to carry out these tasks single-handedly and without any help? 1. Shopping, 2. Walking around outside......
- 3 Social components

Example; Do other people pay attention to you?

• 3 psycho-social components

Do you have troubles with your memory?

In the past 4 weeks did you feel downhearted or sad?

In the past 4 weeks didi you feel nervous or anxious?

- Total Score 0-15
- > 4 = Frail

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Frailty in PT patients (Bunt et al 2018 submitted)

- 25 Private PT practices in NL
- > 70 years
- N= 237
- → 60% is frail according to GFI

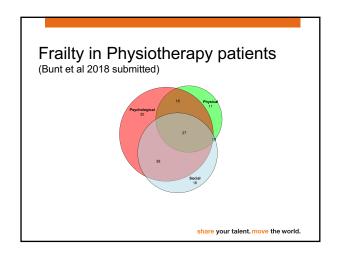
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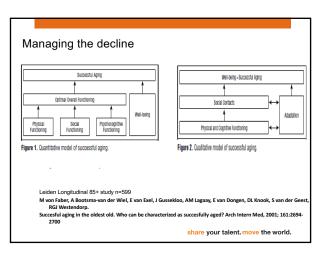
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Groningen Frailty Indicator Steverink et al 2001

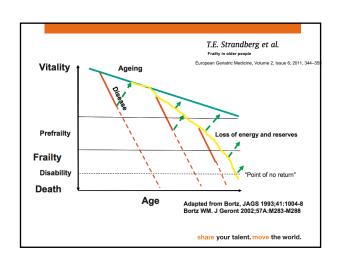
- 9 Physical components
- 3 Social components
- 3 psycho-social components
- Total Score 0-15
- > 4 = Frail





conclusion

- · Prevalence of Frailty is high
- Frailty is a complex phenomenon
- Frailty influences treatment and result → important to recognise multiple domains and take this into account in clinical reasoning





Recent studies on this topic

- McPhee JS et al. Physical activity in older age: perspectives for healthy ageing and frailty_Biogerontology. 2016 Jun;17(3):567-80
- Cesari M et al. Physical Activity Intervention to Treat the Frailty Syndrome in Older Persons—Results From the LIFE-P Study. The Journals of Gerontology Series A: Biological Sciences and Medical Sciences. 2015;70(2):216-22.
- Cameron ID et al. A multifactorial interdisciplinary intervention reduces frailty in older people: randomized trial. BMC Med. 2013;11:65.
- Pahor M et al. Effect of Structured Physical Activity on Prevention of Major Mobility Disability in Older Adults: The LIFE Study Randomized Clinical Trial. JAMA. 2014. doi:10.1001/jama.2014.5616.